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#include<stdio.h>

#include<conio.h>

#include<ctype.h>

#include<windows.h>

#include<stdlib.h>

struct subscriber
{
char phonenumber[20];
char name[50];
float amount;
}s;

void addrecords();
void listrecords();
void modifyrecords();
void deleterecords();
void searchrecords();
void payment();
char get;

int main()
{
    int password;
    int phonenumber;
    char choice;


    system("cls");


    printf("\n\n\n\n\n\n\n\n\n\n*****
*****");

    printf("\n\t\t-----WELCOME TO THE TELECOM BILLING MANAGEMENT SYSTEM---");

    printf("\n\t\t*****
*****"
);

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Sleep(2000);

getch();

system("cls");

while (1)
{
    system("cls");

    printf("\n Enter\n A : for adding new records.\n L : for list of records");
    printf("\n M : for modifying records.\n P : for payment");
    printf("\n S : for searching records.");
    printf("\n D : for deleting records.\n E : for exit\n");

    choice=getche();

    choice=toupper(choice);

    switch(choice)
    {
        case 'P':

            payment();break;

        case 'A':

            addrecords();break;

        case 'L':

            listrecords();break;

        case 'M':

            modifyrecords();break;

        case 'S':

            searchrecords();break;

        case 'D':

            deleterecords();break;

        case 'E':

            system("cls");

            printf("\n\n\t\t\t\t\tTHANK YOU");

            printf("\n\n\n\n\n:\n\t\t\t\t\tFOR USING OUR SERVICE");

            Sleep(2000);
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        exit(0);

        break;

    default:

        system("cls");

        printf("Incorrect Input");

        printf("\nAny key to continue");

        getch();

    }

}

void addrecords()
{
    FILE *f;

    char test;

    f=fopen("c:/file.ojs","ab+");

    if(f==0)
    { f=fopen("c:/file.ojs","wb+");

        system("cls");

        printf("please wait while we configure your computer");

        printf("/npress any key to continue");

        getch();

    }

    while(1)
    {

        system("cls");

        printf("\n Enter phone number:");

        scanf("%s",&s.phonenumber);

        printf("\n Enter name:");

        fflush(stdin);

        scanf("%[^\\n]",&s.name);

        printf("\n Enter amount:");

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        scanf("%f",&s.amount);

        fwrite(&s,sizeof(s),1,f);

        fflush(stdin);

        system("cls");

        printf("1 record successfully added");

        printf("\n Press esc key to exit, any other key to add other record:");

        test=getche();

        if(test==27)

            break;

    }

    fclose(f);
}

void listrecords()
{
    FILE *f;

    int i;

    if((f=fopen("c:/file.ojs","rb"))==NULL)

        exit(0);

    system("cls");

    printf("Phone Number\t\tUser Name\t\tAmount\n");

    for(i=0;i<79;i++)

        printf("-");

    while(fread(&s,sizeof(s),1,f)==1)

    {

        printf("\n%-10s\t\t%-20s\t\tRs. %.2f /-",s.phonenumber,s.name,s.amount);

    }

    printf("\n");

    for(i=0;i<79;i++)

        printf("-");

fclose(f);

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getch();
}

void deleterecords()
{
    FILE *f,*t;
    int i=1;
    char phonenumber[20];
    if((t=fopen("c:/temp.ojs","w+"))==NULL)
        exit(0);
    if((f=fopen("c:/file.ojs","rb"))==NULL)
        exit(0);
    system("cls");
    printf("Enter the phone number to be deleted from the Database");
    fflush(stdin);
    scanf("%[^\\n]",phonenumber);
    while(fread(&s,sizeof(s),1,f)==1)
    {
        if(strcmp(s.phonenumber,phonenumber)==0)
        {
            i=0;
            continue;
        }
        else
            fwrite(&s,sizeof(s),1,t);
    }
    if(i==1)
    {
        system("cls");
        printf("Phone number \"%s\" not found",phonenumber);
        remove("c:/file.ojs");
        rename("c:/temp.ojs","c:/file.ojs");
        getch();
    }
}

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        fclose(f);

        fclose(t);

        main();

    }

    remove("c:/file.ojs");
    rename("c:/temp.ojs","c:/file.ojs");
    system("cls");
    printf("The Number %s Successfully Deleted!!!!",phonenumber);
    fclose(f);
    fclose(t);
    getch();
}

void searchrecords()
{
    FILE *f;
    char phonenumber[20];
    int flag=1;
    f=fopen("c:/file.ojs","rb+");
    if(f==0)
        exit(0);
    fflush(stdin);
    system("cls");
    printf("Enter Phone Number to search in our database");
    scanf("%s", phonenumber);
    while(fread(&s,sizeof(s),1,f)==1)
    {
        if(strcmp(s.phonenumber,phonenumber)==0)
        {
            system("cls");
            printf(" Record Found ");
            printf("\n\nPhonenumber: %s\nName: %s\nAmount:
Rs.%0.2f\n",s.phonenumber,s.name,s.amount);

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        flag=0;

        break;

    }

    else if(flag==1)

    {        system("cls");

            printf("Requested Phone Number Not found in our database");

    }

}

getch();

fclose(f);

}

void modifyrecords()

{

    FILE *f;

    char phonenumber[20];

    long int size=sizeof(s);

    if((f=fopen("c:/file.ojs","rb+"))==NULL)

        exit(0);

    system("cls");

    printf("Enter phone number of the subscriber to modify:");

    scanf("%s",phonenumber);

    fflush(stdin);

    while(fread(&s,sizeof(s),1,f)==1)

    {

        if(strcmp(s.phonenumber,phonenumber)==0)

        {

            system("cls");

            printf("\n Enter phone number:");

            scanf("%s",&s.phonenumber);

            printf("\n Enter name: ");

            fflush(stdin);

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        scanf("%[^\\n]",&s.name);

        printf("\\n Enter amount: ");

        scanf("%f",&s.amount);

        fseek(f,-size,SEEK_CUR);

        fwrite(&s,sizeof(s),1,f);

        break;
    }

}

fclose(f);
}

void payment()
{
    FILE *f;

    char phonenumber[20];

    long int size=sizeof(s);

    float amt;

    int i;

    if((f=fopen("c:/file.ojs","rb+"))==NULL)

        exit(0);

    system("cls");

    printf("Enter phone number of the subscriber for payment");

    scanf("%[^\\n]",phonenumber);

    fflush(stdin);

    while(fread(&s,sizeof(s),1,f)==1)
    {

        if(strcmp(s.phonenumber,phonenumber)==0)

        {

            system("cls");

            printf("\\n Phone No.: %s",s.phonenumber);

            printf("\\n Name: %s",s.name);

            printf("\\n Current amount: %f",s.amount);

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        printf("\n");
        for(i=0;i<79;i++)
            printf("-");
        printf("\n\nEnter amount of payment :");
        fflush(stdin);
        scanf("%f",&amt);
        s.amount=s.amount-amt;
        fseek(f,-size,SEEK_CUR);
        fwrite(&s,sizeof(s),1,f);
        break;
    }
}
system("cls");
printf("THANK YOU %s FOR YOUR TIMELY PAYMENTS",s.name);
getch();
fclose(f);
}
```